

# Exhibit 1

*Saltman*

JUL 29 1993

CONFIDENTIAL & PRIVILEGED

Advanced Cardiovascular Systems, Inc.

INVENTION DISCLOSURE FORM

To: Legal Department

For Legal Department Use Only

cc: R & D Director

Docket No. 8980

Date Assigned 8/5/93

This is a form for disclosing ideas and inventions to the ACS Legal Department for patent consideration. This form may be used before experimental work has been done. While some of the requested information may not be available at this time, include as much information as you can about the invention. Attach additional sheets if necessary, and sign and date each sheet. Additional information will be requested later.

1. DESCRIPTIVE TITLE OF THE INVENTION

*Catheter made of an engineering plastic*

1 of 3

*Read and Understood  
C. Rincon  
8/5/93*

*"Dilatation Catheter"*

2. DESCRIPTION AND USE - (a) Describe the invention in as much detail as possible, and include a description of a working prototype, if any. Write your description using reference numerals placed on a drawing. Point out and explain relationship with associated equipment. (b) How is the invention used? (c) How does it relate to present or potential commercial products of ACS or others? (d) State the significance of the invention, and any problems it is intended to solve. Please supplement when possible by attaching sketches, engineering drawings, pages from lab books, photographs, and the like.

A new dilatation catheter including an inflated balloon and a high pressure shaft was produced using an engineering plastic (e.g. PEEK, PAK, etc.). The Catheter Comprises an elongated tubular member which is longitudinally flexible, a guide extension secured to the distal end of the elongated tubular member and an inflatable balloon secured on the proximal end to the distal end of the elongated tubular member. The final product gave a balloon with 1. Higher strength, and higher pressure ( $>300\text{psi}$ ) 2. lower friction

3. PROJECTED GENERIC SCOPE - Describe the invention in terms of the broadest generic scope which you expect will be operable (e.g. if a machine or article, describe alternate type and sizes of materials for construction, etc.; if a process, describe alternate manufacturing conditions, etc.).

- see above
- will be ~~at~~ available

→ 3. ~~the~~ thinner wall than those of the previous patents.

The final product gave a shaft with

1. Higher pressure and Higher strength.
2. Smaller shaft size
3. Thinner walls.

CB/lnov  
4/5/93

Materials, PEEK, PAK, or other Engineering plastics "Dilatation catheter"

4. REFERENCES - (a) Has a literature search been made? (b) List and, if possible, attach copies of all literature, publications, patents, and patent applications of which you are aware relating to the invention. See section in Guidelines for Completing Invention Disclosure Form concerning obligation of disclosure.

Yes, see ~~the~~ Polymer technology file

5. DISCLOSURE OR USE - (a) Is the invention known to anyone outside of ACS ? (b) Has the invention been used outside ACS ? (c) What is the current stage of development of the invention ? (d) Are there plans to disclose or use the invention outside of ACS ?

(a) No

(b) No

(c) Balloons + Sheet prepared. No optimization

(d) Yes

Submitters

TAI CHENG

Print and Sign

7/29/93

Date

Read and Understood the completed Invention Disclosure Form (not a Submitter)

Robert Evey

Print and Sign

Robert Evey

7/29/93

Date

Calumon  
6/5/93

"Dilegation  
PA Charter"